

Title (en)  
TOUCH PANEL AND ELECTRONIC DEVICE

Title (de)  
BERÜHRUNGSTAFEL UND ELEKTRONISCHE VORRICHTUNG

Title (fr)  
PANNEAU TACTILE ET DISPOSITIF ÉLECTRONIQUE

Publication  
**EP 3130984 A4 20171101 (EN)**

Application  
**EP 15776144 A 20150402**

Priority  
• JP 2014078332 A 20140407  
• JP 2014210882 A 20141015  
• JP 2015060436 W 20150402

Abstract (en)  
[origin: US2016357331A1] The present invention provides a technology with which precision in detecting pressing can be enhanced, even if the total number of films in a touch panel is decreased. The touch panel includes a capacitive touch panel unit and a pressure sensor unit, wherein the capacitive touch panel unit includes a film and touch panel electrodes, and the pressure sensor unit includes a film and pressure sensor electrodes. An electrode layer in which the pressure sensor electrode is formed is the same as an electrode layer in which the touch panel electrode is formed, and an electrode layer in which the pressure sensor electrode is formed has a non-formation portion where the pressure sensor electrode is not formed, at the position opposite to the touch panel electrode.

IPC 8 full level  
**G06F 3/041** (2006.01); **G06F 3/044** (2006.01)

CPC (source: EP US)  
**G06F 3/0412** (2013.01 - US); **G06F 3/0416** (2013.01 - EP US); **G06F 3/0445** (2019.04 - EP US); **G06F 3/0446** (2019.04 - EP US);  
**G02F 1/13338** (2013.01 - US); **G06F 2203/04105** (2013.01 - EP US); **G06F 2203/04107** (2013.01 - US)

Citation (search report)  
• [IY] WO 2014045847 A1 20140327 - MURATA MANUFACTURING CO [JP] & EP 2899615 A1 20150729 - MURATA MANUFACTURING CO [JP]  
• [Y] WO 2013021835 A1 20130214 - MURATA MANUFACTURING CO [JP], et al & EP 2743804 A1 20140618 - MURATA MANUFACTURING CO [JP]  
• See references of WO 2015156196A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**US 10156930 B2 20181218**; **US 2016357331 A1 20161208**; CN 106133665 A 20161116; CN 106133665 B 20190319;  
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WO 2015156196 A1 20151015

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